JOURNAL OF LABELLED COMPOUNDS AND RADIOPHARMACEUTICALS
J Label Compd Radiopharm 2003; **46:** 1305–1314

Volume Contents

Volume 46, Issue Numbers 1–15

ISSUE No. 1

Review Article

The production of a broader palette of PET tracers
R. J. Nickles 1

Research Articles

Synthesis of high specific activity ^{35}S-labelled *N*-methanesulfonyl farnesylcysteine and a photoactive analog
T. A. Kale, C. Raab, N. Yu, E. Aquino, D. C. Dean and M. D. Distefano 29

Preparation of 4-[^{11}C]methylmetaraminol, a potential PET tracer for assessment of myocardial sympathetic innervation
O. Langer, T. Forngren, J. Sandell, F. Dollé, B. Långström, K. Någren and C. Halldin.. 55

Synthesis and characterization of the potent cannabinoid agonist [naphthyl-^{3}H] WIN 55212-2 at high specific activity
R. J. Seguin and C. N. Filer 67

Synthesis and biological characteristics of the technetium-99m triamide derivatives of mercaptoacetyltriglycine (MAG_3)
S. M. Okarvi, P. Adriaens and A. M. Verbruggen 73

Synthesis of PNU-243922 labelled with ^{14}C
C. Felicini, E. Fontana, D. Giribone, B. M. Nilsson, K. Österlund and A. Paptchikhine... 85

Synthesis of *N*-(piperidin-1-yl)-5-(4-methoxyphenyl)-1-(2-chlorophenyl)-4-[^{18}F]fluoro-1*H*-pyrazole-3-carboxamide by nucleophilic [^{18}F] fluorination: a PET radiotracer for studying CB_1 cannabinoid receptors
R. Katoch-Rouse and A. G. Horti 93

Preparation of 1,2,3,4,6-penta-*O*-galloyl-[U-^{14}C]-D-glucopyranose
Y. Chen, A. E. Hagerman and R. E. Minto 99

ISSUE No. 2

Research Articles

Synthesis of deuterated 4,4′-diaminodiphenylsulfone (Dapsone) and related analogs
P. M. Gannett, E. M. Johnson II, M. A. Grimes, A. L. Myers, R. E. Deavers III and T. S. Tracy 107

Synthesis of ^{15}N-, ^{13}C-, and ^{2}H-labeled methanandamide analogs
F.-M. Yao, S. L. Palmer, A. D. Khanolkar, X. Tian, J. Guo and A. Makriyannis 115

Copyright © 2003 John Wiley & Sons, Ltd

Synthesis of *N, N*-diethyl-4-[phenyl-(piperidin-4-ylidene)methyl]-[*carboxy*^{14}C] benzamide, a potent δ opioid receptor agonist
L. Gawell 131

Synthesis of ^{3}H and ^{14}C labeled (S)-3-(5-chloro-2-methoxyphenyl)-1,3-dihydro-3-fluoro-6-(trifluoromethyl)-2H-indol-2-one, MaxiPost™. An agent for post-stroke neuroprotection
D. D. Dischino, V. K. Gribkoff, P. Hewawasam, G. M. Luke, J. K. Rinehart, T. L. Spears and J. E. Starrett, Jr 139

Novel solvent-free labelling procedure with carbon-14 diethyl malonate
L. Hernandez, E. Casanova, A. Loupy and A. Petit 151

Synthesis of carbon-14 labeled (*R*)-3-fluoro-4-(2′-(5″, 6″, 7″, 8″-tetrahydro-5″, 5″, 8″, 8″-tetramethyl-2″-naphthyl)-[2′-hydroxy-^{14}C])[carbonyl-^{14}C]acetamidobenzoic acid
D. D. Dischino, C.-W. Lee, M. Belema and C. Zusi 159

Synthesis of carbon-14 labeled 4-[4-[2-[2-[bis(4-chlorophenyl)methoxy]ethyl sulfonyl] [1-^{14}C]ethoxy]phenyl]-1,1,1-trifluoro-2-butanone
D. D. Dischino, J. Banville and R. Remillard 167

Synthesis and properties of radiolabeled CPTA-oligonucleotides
S. Wagner, R. Eritja, M. Zuhayra, F. Oberdorfer, A. Mohammed, W. Mier, U. Haberkorn and M. Eisenhut 175

Synthesis of tritium labelled arachidonic acid amide and ester derivatives with dopamine, serotonin, vanillylamine, and ethyleneglycol moieties
V. P. Shevchenko, I. Y. Nagaev, N. F. Myasoedov, I. A. Yudushkin, N. M. Gretskaya, M. Y. Bobrov and V. V. Bezuglov 187

Erratum

Stereoselective synthesis of L-[2,3,4,5-D4]ornithine *J Label Compd Radiopharm* 2002; 45: 619–627
M. Oba, T. Tshihara, H. Satake and K. Nishiyama 195

Erratum

Efficient synthesis and formulation of (R)-(-)-[11C]deprenyl, a selective radioligand for the quantification of MAO-B activity using PET *J Label Compd Radiopharm* 2002; 45: 803–811
F. Dolle, Y. Bramoulle, F. Hinnen and J. S. Fowler 196

ISSUE No. 3

Research Articles

Preparation and animal biodistribution of ^{166}Ho labeled DOTA for possible use in intravascular radiation therapy (IVRT)
T. Das, S. Chakraborty, S. Banerjee. G. Samuel, H. D. Sarma, M. Venkatesh and M. A. Pillai 197

Radiochemical stability of ^{14}C-compounds on storage: benefits of thioethers
A. Fredenhagen 211

Preparation of tritium-labelled BIIL 260 of high specific radioactivity
V. P. Shevchenko, I. Yu. Nagaev, N. F. Myasoedov, A. B. Susan, R. Anderskewitz, F. W. Birke and K-H. Switek 221

A new synthesis of [26,28-$^{2}H_{6}$]brassinolide and [26,28-$^{2}H_{6}$]castasterone via an unusual methyl migration
A. Kolbe, A. Porzel, J. Schmidt and G. Adam 231

Preparation of labelled 2-methoxy-3-alkylpyrazines: synthesis and characterization of deuterated 2-methoxy-3-isopropylyrazine and 2-methoxy-3-isobutylpyrazine
D. A. Gerritsma, I. D. Brindle, T. R. B. Jones and A. Capretta 243

Methylation of the thiophene ring using Carbon-11-labelled methyl iodide: formation of 3-[^{11}C]methylthiophene
M. Karramkam, S. Demphel, F. Hinnen, C. Trognon and F. Dollé 255

Synthesis of 1-(2′-deoxy-2′-fluoro-β-D-arabinofuranosyl)-[*Methyl*-^{11}C]thymine ([^{11}C]FMAU) *via* a Stille cross-coupling reaction with [^{11}C]methyl iodide
L. Samuelsson and B. Långström 263

Deuterated abscisic acid analogs for mass spectrometry and metabolism studies
S. R. Abrams, K. Nelson and S. J. Ambrose 273

ISSUE No. 4

Research Articles

A general synthesis of 2′-deoxy-2′-[^{18}F]fluoro-1-β-D-arabinofuranosyluracil and its 5-substituted nucleosides
M. M. Alauddin, P. S. Conti and J. D. Fissekis 285

A practical laboratory route to the synthesis of trideuteriomethyl-[^{13}C] iodide
G. S. Coumbarides, J. Eames and N. Weerasooriya 291

Synthesis and radiolabelling of [^{123}I]-4-iodo-*N*-(4-(4-(2-methoxyphenyl)-piperazin-1-yl) butyl)-benzamide, a potential dopamine D_3 antagonist for SPECT studies
L. Staelens, F. Dumont, F. De Vos, R. Oltenfreiter, M. Vandecapelle, R. A. Dierckx and G. Slegers 297

Preparation via coligand exchange and characterization of [^{99m}Tc-EDDA-HYNIC-D-Phe^{1},Tyr^{3}]Octreotide (^{99m}Tc–EDDA/HYNIC–TOC)
E. von Guggenberg, B. Sarg, H. Lindner, L. M. Alafort, S. J. Mather, R. Moncayo and C. Decristoforo 307

Synthesis and characterization of new ^{99m}Tc-radiopharmaceuticals with dithiobenzoate derivatives for the study of septic inflammatory processes
F. Mevellec, A. Roucoux, N. Noiret, A. Moisan, H. Patin and A. Duatti 319

A new approach for ^{11}C–C bond formation: synthesis of 17α-(3′-[^{11}C]prop-1-yn-1-yl)-3-methoxy-3,17β-estradiol
F. Wüst, J. Zessin and B. Johannsen 333

Synthesis of MMP inhibitor radiotracer [^{11}C]CGS 25966, a new potential PET tumor imaging agent
X. Fei, Q.-H. Zheng, X. Liu, J.-Q. Wang, K. L. Stone, K. D. Miller, G. W. Sledge and G. D. Hutchins 343

Preparation of labeled bis-amino acid Hydroxyethylamino sulfonamide HIV protease inhibitors
K. Cao, S.-Y. Chen and S. R. Prakash 353

Tritium-labelled 8-cyclopentyl-3-(3-fluoropropyl)-1-propylxanthine ([^{3}H]CPFPX), a potent and selective antagonist for the A_1 adenosine receptor
M. H. Holschbach, W. Wutz, M. Schüller, D. Bier and H. H. Coenen 365

An efficient synthesis of sodium dimethylarsinate-^{14}C
B. Jagadish, H. V. Aposhian and E. A. Mash 373

Synthesis of [^{18}F]FETO, a novel potential 11-β hydroxylase inhibitor
W. Wadsak and M. Mitterhauser 379

ISSUE No. 5

Research Articles

Synthesis of deuterium-labeled 3-*O*-methyldopa and 4-*O*-methyldopa
A. Perera, K. Hyland, H. K. Nguyen and R. R. Kane 389

Synthesis of ^{14}C-labelled myosmime, [2′-^{14}C]-3-(1-pyrrolin-2-yl)pyridine
S. Tyroller, W. Zwickenpflug and E. Richter 395

Asymmetric epoxidation of digeranyl by cultured cells of *Nicotiana tabacum*
O. Nakagawa, K. Shimoda, S. Izumi and T. Hirata 401

Synthesis and radiolabelling of [^{123}I]-4-iodo-N-(4-(4-(2-methoxyphenyl)-piperazin-1-yl) butyl)-benzamide, a potential dopamine D_3 antagonist for SPECT studies
L. Staelens, F. Dumont, F. De Vos, R. Oltenfreiter, M. Vandecapelle, R. A. Dierckx and G. Slegers 411

Syntheses of 5-(2-radiohaloethyl)- and 5-(2-radiohalovinyl)-2′- deoxyuridines. Novel types of radiotracer for monitoring cancer gene therapy with PET
C.-S. Yu, J. Eisenbarth, A. Runz, K. Weber, S. Zeisler and F. Oberdorfer 421

Synthesis of [^{14}C]-L-tryptophan and [^{14}C]-5′-hydroxy-L-tryptophan labeled in the carboxyl group
E. Boroda, R. Kański and M. Kańska 441

Preparation of [^{11}C]formaldehyde using a silver-containing ceramic catalyst
D. Roeda and F. Dollé 449

Synthesis of tritium labelled L783483 – a PPARδ ligand
G. Grue-Sørensen and N. Høj 459

Chemical and enzymatic synthesis of tritium labelled coenzymes
G. V. Sidorov, Y. B. Zverkov, S. I. Shram, T. Y. Lazurkina and N. F. Myasoedov 465

[^{14}C] and [^{3}H]-labelling of Ragaglitazar: A dual acting PPARα and PPARγ agonist with hypolipidemic and anti-diabetic activity
J. B. Kristensen, S. K. Johansen, J. S. Valsborg, L. Martiny and C. Foged 475

Application of 1-butyl-3-methylimidazolium hexafluorophosphate to Ir(I)-catalyzed hydrogen isotope exchange labelling of substrates poorly soluble in dichloromethane
R. Salter and I. Bosser 489

ISSUE No. 6

Research Articles

[^{125}I], [^{127}I]- and [^{14}C]-Labelling of the GLP-1-(7-37) derivative NN2211
J. B. Kristensen, M. L. Pedersen, U. D. Larsen, L. Martiny, L. B. Hansen and C. Foged 499

A simplified synthesis of 2,3,5,6-tetrafluorophenyl 2-(2-nitroimidazol-1-yl) acetate
H. Wilson 511

The synthesis and characterisation of multi-labelled [D, ^{13}C] 2-deuterio-2-methyl aromatic ketones
G. S. Coumbarides, J. Eames and N. Weerasooriya 515

Iridium-mediated β-deuteration of enones
J. S. Gibson and J. M. Herbert 531

Carbon-11 labelling of an *N*-sulfonylamino acid derivative: a potential tracer for MMP-2 and MMP-9 imaging
B. Kuhnast, C. Bodenstein, H. J. Wester and W. Weber 539

Radiosynthesis of *O*-[^{11}C]methyl-L-tyrosine and *O*-[^{18}F]Fluoromethyl-L-tyrosine as potential PET tracers for imaging amino acid transport
R. Iwata, S. Furumoto, C. Pascali, A. Bogni and K. Ishiwata 555

Combining microwave-enhanced deuteriation reactions with parallel synthesis procedures
M. R. Chappelle, J. R. Harding, B. B. Kent, J. R. Jones, S.-Y. Lu and A. D. Morgan ... 567

Synthesis, radio-LC–MS analysis and biodistribution in mice of ^{99m}Tc–NIM–BAT
G. Bormans, B. Cleynhens, T. J. de Groot, L. Mortelmans, J.-L. Moretti and A. Verbruggen 575

How to increase the reactivity of [^{18}F]fluoroethyl bromide: [^{18}F]fluoroethylation of amine, phenol and amide functional groups with [^{18}F]FEtBr, [^{18}F]FEtBr/NaI and [^{18}F]FEtOTf
M.-R. Zhang, K. Furutsuka, Y. Yoshida and K. Suzuki 587

ISSUE No. 7

Research Articles

Synthesis of [^{14}C] Sarin
R. Norlin and G. Lindberg 599

Synthesis of JTT-501 and its metabolite JTP-20604 labelled with ^{13}C
A. Pignatti, D. Giribone, C. Felicini and E. Fontana 605

A convenient synthesis of $^{13}C_4$-Leflunomide and its primary metabolite $^{13}C_4$-A77 1726
R. J. Faragher, J. M. Motto, M. A. Kaminski and A. L. Schwan 613

Feasibility of palladium-catalyzed isotopic exchange between sodium [^{125}I]I and 2-iodo-*para*-carborane
L. Eriksson, V. Tolmachev and S. Sjöberg 623

Synthesis of $^{99m}Tc(CO)_3$-mebrofenin via $[^{99m}Tc(OH_2)_3(CO)_3]^+$ precursor and comparative pharmacokinetics studies with ^{99m}Tc-mebrofenin
K. Kothari, S. Joshi, M. Venkatesh, N. Ramamoorthy and M. R. A. Pillai 633

Synthesis and evaluation of 5,7-dichloro-4-(3-{4-[4-(2-[^{18}F]fluoroethyl)-piperazin-1-yl]-phenyl}-ureido)-1,2,3,4-tetrahydroquinoline-2-carboxylic acid as a potential NMDA ligand to study glutamatergic neurotransmission in vivo
M. Piel, R. Schirrmacher, S. Höhnemann, W. Hamkens, B. Kohl, M. Jansen, U. Schmitt, H. Lüddens, G. Dannhardt and F. Rösch 645

Automated commercial synthesis system for preparation of O-(2-[^{18}F]fluoroethyl)-L-tyrosine by direct nucleophilic displacement on a resin column
G. Tang, X. Tang, M. Wang, L. Luo, M. Gan and Z. Huang 661

Synthesis of tritium-labelled 3′-azido-3′-deoxythymidine
G. V. Sidorov, Y. B. Zverkov, N. F. Myasoedov, M. V. Jasko and Y. S. Skoblov 669

Abstracts

Abstracts of the 12th IIS (UK Group) Symposium. "Synthesis & Applications of Labelled Compounds 2002"
W. S. Lockley 677

ISSUE No. 8

Research Articles

Enzymatic synthesis of L-tryptophan and 5′-hydroxy-L-tryptophan labeled with deuterium and tritium at the α-carbon position
E. Boroda, S. Rakowska, R. Kański and M. Kańska 691

Synthesis of 4-[^{18}F]fluoroiodobenzene and its application in sonogashira cross-coupling reactions
F. R. Wüst and T. Kniess 699

A general method for the fluorine-18 labelling of fluoroquinolone antibiotics
O. Langer, M. Mitterhauser, W. Wadsak, M. Brunner, U. Müller, K. Kletter and M. Müller 715

Synthesis of 1-[4-(m-tolyl)amino-6-quinazolinyl]-3-[^{14}C]-methyl triazene: a radiolabeled probe for the combi-targeting concept
S. L. Matheson, S. Mzengeza and B. J. Jean-Claude 729

^{125}I-Labeled 2-*O*- and 3-*O*-*m*-iodobenzyl, and 6-*O*-*m*-iodophenyl derivatives of L-ascorbic acid: synthesis and preliminary tissue distribution
F. Yamamoto, E. Kuwano, T. Kaneshiro, S. Sasaki and M. Maeda 737

Preparation and biological evaluation of ^{99m}Tc-stannous fluoride colloid-labelled-leucocytes in rats ^{99m}Tc-stannous fluoride-labelled-leucocytes in rats
C. Tsopelas, E. Smith, P. A. Drew and F. D. L. Bartholomeusz 751

A novel probe for imaging amyloid-β: Synthesis of F-18 labelled BF-108, an Acridine Orange analog
H. Shimadzu, T. Suemoto, M. Suzuki, T. Shiomitsu, N. Okamura, Y. Kudo and T. Sawada 765

Synthesis of tritium labelled mecillinam
S. M. Frederiksen and G. Grue-Sørensen 773

Erratum

Synthesis of ^{13}C- and ^{14}C-labelled catechol. *J Label Compd Radiopharm* 2002; 45: 551–558
R. Ji and A. Schäffer 781

ISSUE No. 9

Research Articles

Efficient synthesis of [^{11}C]befloxatone, a selective radioligand for the *in vivo* imaging of MAO-A density using PET
F. Dollé, Y. Bramoullé, F. Hinnen, S. Demphel, P. George and M. Bottlaender 783

Synthesis of $^{13}C_3$-hydroxyacetone
C. W. Dicus, K. J. Burnham, M. J. Charles and M. H. Nantz 793

Regioselective F-18 radiolabeling of AM694, a CB_1 Cannabinoid Receptor Ligand
P. G. Willis, R. Katoch-Rouse and A. G. Horti 799

Synthesis of [^{18}F]-labeled adenosine analogues as potential PET imaging agents
M. M. Alauddin, J. D. Fissekis and P. S. Conti 805

^{3}H-labelled alkyl-nucleotides, -nucleosides and -bases for the immunoanalytical quantification of DNA damage and repair
W. Drosdziok, C. Lutze, K. Krüger, K.-H. Glüsenkamp and M. F. Rajewsky 815

Efficient *in-loop* synthesis of high specific radioactivity [^{11}C]carfentanil
A. R. Studenov, S. Jivan, K. R. Buckley and M. J. Adam 837

Synthesis of tracer labelled [11,12-^{3}H]-β-carotene
B. C. Goswami and A. B. Barua 843

A facile and efficient synthesis of ^{14}C-labelled sulforaphane
C. A. D'Souza, S. Amin and D. Desai 851

Synthesis of tritium and carbon-14 labelled NNC 61-4655: a potent dual-acting PPARα and PPARγ agonist
S. K. Johansen and L. Martiny 861

Synthesis of the serotonin transporter ligand (±)-10-methyl 3-[6-nitro-(2-quinolinyl)]-3,10-diazabicyclo-[4.3.1]-decane ([^{11}C-methyl]NS 2495) and first *in vivo* results
H. Audrain, D. Bender, J. Scheel-Krüger, E. Ø. Nielsen, G. M. Olsen, D. Peters and P. Cumming 873

Synthesis of [^{14}C]ABT-770, matrix metalloproteinase inhibitor (MMPI), labelled in the phenoxy ring
S. N. Raja 883

ISSUE No. 10

Review Articles

Supercritical fluids in medical radioisotope processing and chemistry, Part I: technology, instrumentation and methodology
R. A. Ferrieri 893

Supercritical fluids in medical radioisotope processing and chemistry, Part II: Applications – real and demonstrated
R. A. Ferrieri 923

Research Articles

Red blood cells labelling with ^{99m}Tc-d,l-HMPAO: an alternative method for specific cases
F. J. Pérez, A. Matilla, J. M. Tercero, F. Martínez and D. Becerra 945

Syntheses of novel *N*-([^{18}F]fluoroalkyl)-*N*-nitroso-4-methyl-benzenesulfonamides and decomposition studies of corresponding ^{19}F- and bromo-analogues: potential new compounds for the ^{18}F-labelling of radiopharmaceuticals
R. Schirrmacher, B. Mathiasch, E. Schirrmacher, D. Radnic and F. Rösch 959

2-, 3- and 4-[^{18}F]Fluoropyridine by no-carrier-added nucleophilic aromatic substitution with K[^{18}F]F-K_{222} – a comparative study
M. Karramkam, F. Hinnen, F. Vaufrey and F. Dollé 979

Synthesis of two non-peptidyl GnRH receptor antagonists via [^{14}C]carbonylation
C. S. Elmore, D. C. Dean, R. J. DeVita and D. G. Melillo 993

ISSUE No. 11

Research Articles

An efficient procedure for the synthesis of ^{18}O-labelled methanesulfinyl chloride
J. Drabowicz, B. Bujnicki and M. Mikolajczyk 1001

A non-peptide radioiodinated high affinity melanocortin-4 receptor ligand
F. Mutulis, S. Yahorava, I. Mutule, A. Yahorau, S. Kopanchuk, S. Veiksina, A. Rinken and J. E. S. Wikberg 1007

Synthesis of [^{14}C]-labelled vardenafil hydrochloride and metabolites
D. Seidel, P. Brehmer, Y. Schoof, U. Weinberg, U. Niewöhner and M. Nowakowski 1019

The synthesis and characterisation of deuteriated amides
G. S. Coumbarides, J. Eames and S. Ghilagaber 1033

Synthesis of [N-methyl-^{11}C]-3-[(6-dimethylamino)pyridin-3-yl]-2,5-dimethyl-*N*, *N*-dipropylpyrazolo[1,5-a]pyrimidine-7-amine: A potential PET ligand for *in vivo* imaging of CRF_1 receptors
J. S. Dileep Kumar, V. J. Majo, J. Prabhakaran, N. R. Simpson, R. L. Van Heertum and J. J. Mann 1055

Preparation of [^{99m}Tc]TRODAT-1 involving a simple purification method
G. Tóth, Z. Szakonyi, B. Kanyó, F. Fülöp, G. Jancsó and L. Pávics 1067

Reductive *N*-alkylation of secondary amines with [2-^{11}C]acetone
M. van der Meij, N. I. Carruthers, J. D. M. Herscheid, J. A. Jablonowski, J. E. Leysen and A. D. Windhorst 1075

Expedient synthesis of [^{18}F]-labeled α-trifluoromethyl ketones
G. K. Surya Prakash, M. M. Alauddin, J. Hu, P. S. Conti and G. A. Olah 1087

ISSUE No. 12

Research Articles

Fluorine-18 labelling of oligonucleotides: Prosthetic labelling at the 5′-end using the *N*-(4-[^{18}F]fluorobenzyl)-2-bromoacetamide reagent
B. Kuhnast, F. Hinnen, R. Boisgard, B. Tavitian and F. Dollé 1093

Development of a photoaffinity label for respiratory syncytial virus inhibitors
D. D. Dischino, C. W. Cianci, R. Civiello, M. Krystal, N. A. Meanwell, H. Morimoto, P. G. Williams and K.-L. Yu 1105

Synthesis and evaluation of tritium labelled 10-methylgalanthamine iodide: a novel compound to examine the mechanism of interaction of galanthamine derivatives with the nicotinic acetylcholine receptors
A. Schildan, R. Schirrmacher, E. Schirrmacher, M. Samochocki, C. Christner, A. Maelicke and F. Rösch 1117

Synthesis of no-carrier-added [^{11}C]methanesulfonyl chloride as a new labeling agent for PET radiopharmaceutical development
J. A. McCarron and V. W. Pike 1127

Radiosynthesis of a 2-substituted 4,5-dihydro-1H-[2-^{11}C] imidazole: the I_2 imidazole receptor ligand [^{11}C] benazoline
D. Roeda, F. Hinnen and F. Dollé 1141

Synthesis of [^{18}F]Fluoroclofilium as a potential cardiac imaging agent for PET studies
K. H. Yu, Y. S. Kim, S. W. Kim, J. H. Park, S. D. Yang, W. Herdering and A. Knoechel 1151

Microwave-assisted synthesis and chiral HPLC separation of ^{18}F-labeled MaxiPost™. An agent for post-stroke neuroprotection
D. D. Dischino, H. A. Dulac, K. W. Gillman, L. S. Keller, E. S. Kozlowski, L. R. Marcin, J. J. Mongillo and J. E. Starrett Jr 1161

Note

Dithizone-^{14}C labelling and characterization
A. D'Urso, C. N. Filer, M. Suryan and C. T. Peng 1173

ISSUE No. 13

Note

Synthesis of [$^{13}C_2$]nifedipine
K. Ohtaka and M. Kajiwara 1177

Research Articles

The first enzymatic method for C–^{18}F bond formation: the synthesis of 5′-[^{18}F]-fluoro-5′-deoxyadenosine for imaging with PET
L. Martarello, C. Schaffrath, H. Deng, A. D. Gee, A. Lockhart and D. O'Hagan 1181

Convenient and efficient deuteration of functionalized aromatics with deuterium oxide: catalysis by cycloocta-1,5-dienyliridium(I)1,3-dionates
B. McAuley, M. J. Hickey, L. P. Kingston, J. R. Jones, W. J. S. Lockley, A. N. Mather, E. Spink, S. P. Thompson and D. J. Wilkinson 1191

Fluorine-18- and iodine-125-labelling of spiegelmers
B. Kuhnast, S. Klussmann, F. Hinnen, R. Boisgard, B. Rousseau, J. P. Fürste, B. Tavitian and F. Dollé 1205

Radiosynthesis of [*N*-methyl-^{11}C]methylene blue
L. Schweiger, S. Craib, A. Welch and P. Sharp 1221

Radiosynthesis of 3-(2′-[^{18}F]fluoro)-flumazenil ([^{18}F]FFMZ)
W. Wadsak, M. Mitterhauser, L.-K. Mien, S. Tögel, B. Keppler, R. Dudczak and K. Kletter 1229

Synthesis of [^{3}H] vardenafil, Levitra®, using a new labeling technique
U. Pleiss 1241

Synthesis of NCA [*carbonyl*-^{11}C]amides by direct reaction of *in situ* generated [^{11}C]carboxymagnesium halides with amines under microwave-enhanced conditions
S.-Y. Lu, J. Hong and V. W. Pike 1249

ISSUE No. 14

Research Articles

Synthesis of [^{18}F]3-[1-(3-fluoropropyl)-(*S*)-pyrrolidin-2-ylmethoxy]pyridine ([^{18}F]NicFP): a potential $\alpha4\beta2$ nicotinic acetylcholine receptor radioligand for PET
F. Dumont, A. Sultana, A. Balter and R. N. Waterhouse 1261

Synthesis of 3,7,8-$^{15}N_3$-N^{1}-(β-D-*erythro*-pentofuranosyl)-5-guanidinohydantoin
H. Yu, J. S. Wishnok and S. R. Tannenbaum 1269

Note

Purification of [^{11}C]nitromethane for use in asymmetric nitroaldol reactions
S. Å. Gustavsson, K. Kato and B. Långström 1279

Indexes

Cumulative Compound Index
R. Bolton 1287

Author Index 1297

Keyword Index 1301

Volume Contents 1305

ISSUE No. 15

Fifteenth International Symposium on Radiopharmaceutical Chemistry

Abstracts S1–S403